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1 Information access and retrieval: An architecture to support distributed data retrieval in specialized formats 77%
M. Brian Blake
Proceedings of the 2003 ACM symposium on Applied computing March 2003
Raw data and processed information are essential to the development of software simulation systems used in the analysis of various application domains. In such domains, the dissemination and management of this information is a daunting task. This paper discusses software architectural and specification-driven approaches to data retrieval in custom formats. Simulation developers use XML-based specification to request database results in any format.

2 Workshop on object-oriented programming ECOOP 1987, Paris, June 18, 1987 77%
ACM SIGPLAN Notices January 1988
Volume 23 Issue 1

3 The implementation of a Chronicle collection class in Smalltalk/DB 77%
Paul Schleifer , Yuan Sun , Dilip Patel
Proceedings of the 1996 ACM symposium on Applied Computing February 1996

4 Development of an object-oriented DBMS 77%
David Maier , Jacob Stein , Allen Otis , Alan Purdy
ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications June 1986
Volume 21 Issue 11
We describe the results of developing the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a summary of the goals and requirements for the system: an extensible data model that captures behavioral semantics, no artificial bounds on the number or size of database objects, database amenities (concurrency, transactions, recovery, associative access,

authorization) and an interactive development environment. Object-orient ...

5 Automatic logical navigation for relational databases 77%

Paul E. Reimers , Soon M. Chung

Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice March 1993

6 Usage analysis: Duplicate detection in click streams 77%

Ahmed Metwally , Divyakant Agrawal , Amr El Abbadi

Proceedings of the 14th international conference on World Wide Web May 2005

We consider the problem of finding duplicates in data streams. Duplicate detection in data streams is utilized in various applications including fraud detection. We develop a solution based on Bloom Filters [9], and discuss the space and time requirements for running the proposed algorithm in both the contexts of sliding, and landmark stream windows. We run a comprehensive set of experiments, using both real and synthetic click streams, to evaluate the performance of the proposed solution. The r ...

7 Research sessions: non-standard query processing: Buffering databse operations for enhanced instruction cache performance 77%

Jingren Zhou , Kenneth A. Ross

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As more and more query processing work can be done in main memory access is becoming a significant cost component of database operations. Recent database research has shown that most of the memory stalls are due to second-level cache data misses and first-level instruction cache misses. While a lot of research has focused on reducing the data cache misses, relatively little research has been done on improving the instruction cache performance of database systems.We first answer the question "Why ...

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1 On aggregation issues in spatial data management 77%
M. Indulska , M. E. Orlowska
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
Volume 24 Issue 2
Large amounts of information can be overwhelming and costly process, especially when transmitting data over a network. A typical modern Geographical Information System (GIS) brings all types of data together based on the geographic component of the data and provides simple point-and-click query capabilities well as complex analysis tools. Querying a Geographical Information System, however, can be prohibitively expensive due to the large amounts of data which may need to be processed. Since the ...

2 Image Retrieval: Adaptive nearest neighbor search for relevance feedback in large image databases 77%
P. Wu , B. S. Manjunath
Proceedings of the ninth ACM international conference on Multimedia October 2001
Relevance feedback is often used in refining similarity retrievals in image and video databases. Typically this involves modification to the similarity metrics based on the user feedback and recomputing a set of nearest neighbors using the modified similarity values. Such nearest neighbor computations are expensive given that typical image features, such as color and texture, are represented in high dimensional spaces. Search complexity is a ciritcal issue while dealing with large databases and ...

3 Recursive query processing using graph traversal techniques 77%
Estrella Pulido
Proceedings of the fifth international conference on Information and knowledge management November 1996

4 Towards a framework for integrating multilevel secure models and temporal data models 77%

Niki Pissinou , Kia Makki , E. K. Park

Proceedings of the third international conference on Information and knowledge management November 1994

Within many organizations the number of databases containing classified or otherwise sensitive data is increasing rapidly. Access to these databases must be restricted and controlled to limit the unauthorized disclosure, or malicious modification of data contained in them. However, the conventional models of authorization that have been designed for database systems supporting the hierarchical, network and relational models of data do not provide adequate mechanisms to support controlled ac ...

5 Usage analysis: Duplicate detection in click streams 77%

Ahmed Metwally , Divyakant Agrawal , Amr El Abbadi

Proceedings of the 14th international conference on World Wide Web May 2005

We consider the problem of finding duplicates in data streams. Duplicate detection in data streams is utilized in various applications including fraud detection. We develop a solution based on Bloom Filters [9], and discuss the space and time requirements for running the proposed algorithm in both the contexts of sliding, and landmark stream windows. We run a comprehensive set of experiments, using both real and synthetic click streams, to evaluate the performance of the proposed solution. The r ...

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We describe the results of developing the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a summary of the goals and requirements for the system: an extensible data model that captures behavioral semantics, no artificial bounds on the number or size of database objects, database amenities (concurrency, transactions, recovery, associative access, authorization) and an interactive development environment. Object-orient ...

3 Usage analysis: Duplicate detection in click streams 77%
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4 Research sessions: non-standard query processing: Buffering databse operations for enhanced instruction cache performance 77%
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1. **High speed querying with the DAP 510**
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28-30 May 1992 Page(s):342 - 345
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2. **Sorting on a parallel pointer machine with applications to set expression evaluat**
Goodrich, M.T.; Kosaraju, S.R.;
Foundations of Computer Science, 1989., 30th Annual Symposium on
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3. **Magebuilder: a schema translation tool for generating MAGE-ML from tabular mi**
Martin, W.; Horton, R.M.;
Bioinformatics Conference, 2003. CSB 2003. Proceedings of the 2003 IEEE
11-14 Aug. 2003 Page(s):431 - 432
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1. **Design and implementation of a plasma area information system**
Fresonke, D.A.; Beachy, M.; Meador, M.S.;
Semiconductor Manufacturing Science Symposium, 1989. ISMSS 1989., IEEE/SEMI Ir
22-24 May 1989 Page(s):108 - 113
AbstractPlus | Full Text: PDF(592 KB) IEEE CNF

2. **A new general purpose parallel database system**
Afshar, M.; Bates, J.; Bierman, G.; Moody, K.;
Parallel Architectures, Algorithms, and Networks, 1997. (I-SPAN '97) Proceedings. Thi
Symposium on
18-20 Dec. 1997 Page(s):2 - 8
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L3	39	2 and (cell$4 near5 arra$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/17 09:34
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L5	24	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/17 09:35
L6	0	5 and (first$4 near5 column$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/17 09:35
L7	0	5 and (index$3 near5 column$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/17 09:35
S1	811	retriev$4 near5 data near5 relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S2	170	stor$4 near5 data near5 (non$4 near5 relation$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00

S3	520	stor$4 near5 data near5 (multi$4 near5 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S4	674	S2 or S3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S5	50	S1 and S4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 16:28
S6	39	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S7	10	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) (multi$4 near5 dimension$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S8	2	"5986673".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 17:33
S9	1	S8 and (quer$4 same database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 09:32
S10	11	S7 or S9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S11	1	S8 and (relation$4 same database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 17:36
S12	1	S10 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35

S13	1	S8 and (quer$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 17:37
S14	1	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 17:37
S15	46	(quer$4 near5 multi$4 near5 dimension$4 near5 database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S16	16	S15 and (quer$$ near5 relation$4 near5 database$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S17	16	S15 and (quer$4 near5 relation$4 near5 database$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/23 17:48
S18	2326	quer$4 near5 relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 14:41
S19	2330	(result$4 stor$4 output$4) near5 multi$4 near5 dimension$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 14:43
S20	8	S18 same S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 14:44
S21	50	S18 and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S22	2	"6434544".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 15:12

S23	2	"20040133568"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 15:37
S24	2	"20040133567"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/24 15:39
S25	11	non$4 near5 relational$4 near5 database$4 near5 spreadsheet$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S26	23110	relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:34
S27	0	database$3 near5 quer$4 near5 arrary$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:35
S28	92	database$3 near5 quer$4 near5 array$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:41
S29	0	S27 and (array$4 near5 inde$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:36
S30	130406	cell$3 near5 arra$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:36
S31	34	S28 and S30	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 18:36
S32	8408	database$3 near5 quer$4 and array$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34

S33	680	array$4 near5 quer$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 10:00
S34	58	S33 and (index$4 near5 column$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 10:02
S35	8447	database$3 near5 quer$4 and array$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S36	8447	database$3 near5 quer$4 and array$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S37	13	non$4 near5 relational$4 near5 database$4 near5 spreadsheet$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01
S38	937	retriev$4 near5 data near5 relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S39	211	stor$4 near5 data near5 (non$4 near5 relation$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S40	211	stor$4 near5 data near5 (non$4 near5 relation$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S41	608	stor$4 near5 data near5 (multi$4 near5 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S42	798	S40 or S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34

S43	44	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01
S44	44	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:34
S45	11	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) (multi$4 near5 dimension$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01
S46	11	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) (multi$4 near5 dimension$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S47	2	"5986673".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S48	1	S47 and (quer$4 same database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S49	12	S46 or S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S50	12	S46 or S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S51	1	S47 and (relation$4 same database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S52	1	S50 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35

S53	1	S50 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S54	2668	quer$4 near5 relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S55	2583	(result$4 stor$4 output$4) near5 multi$4 near5 dimension$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S56	66	S54 and S55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 16:35
S57	937	retriev$4 near5 data near5 relation$4 near5 database$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S58	211	stor$4 near5 data near5 (non$4 near5 relation$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S59	608	stor$4 near5 data near5 (multi$4 near5 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S60	44	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S61	11	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) (multi$4 near5 dimension$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S62	52	(quer$4 near5 multi$4 near5 dimension$4 near5 database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00

S63	52	(quer$4 near5 multi$4 near5 dimension$4 near5 database$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S64	20	S63 and (quer$$ near5 relation$4 near5 database$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S65	44	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:00
S66	11	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) (multi$4 near5 dimension$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01
S67	13	non$4 near5 relational$4 near5 database$4 near5 spreadsheet$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01
S68	44	(conver$4 transform$4) near5 relation$4 near5 database$4 same ((non$4 near5 relation$4) multi$4 dimension$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 19:01